

Applicant : Jean-Patrick Azpitarte
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Filed : July 16, 2003
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Attorney's Docket No. 18524-002001

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Previously Presented) Safety system for the elevator landing doors of an elevator fitted with an elevator control unit (5), and at each elevator landing door (21), electrical contacts (11, 12) that indicate the locking state and the closing state of the elevator landing door, characterised in that it comprises:

alarm signal devices (13, 14),

elevator landing door surveillance units (10), installed on each elevator landing door (12), each surveillance unit (10) comprising measuring modules (36) respectively connected to the electrical contacts (11, 12) so as to receive the locking state and the closing state of the elevator landing door (21), the measuring modules (36) being connected to a processing unit (31) of the surveillance unit (10), and

synthesis unit (4) connected to the surveillance units (10) to receive the state of the elevator landing door electrical contacts (11, 12), and connected to the elevator control unit (5) to receive other information on the working order of the elevator, the synthesis unit (4) comprising means of determining (41) an operating state of the elevator based on the information received from the surveillance units (10) and the elevator control unit (5), the operating state being one of a plurality of predetermined operating states, and to actuate the signal devices (13, 14) if the operating state of the elevator is determined to be critical to users of the elevator.

2. (Previously Presented) Safety system according to claim 1, characterised in that it comprises means of determining (22, 22') if an elevator car (20) is in the elevator landing door (21) unlocking zone and means of determining if the car (20) door (24) is closed or not, the operating

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state of the elevator also being determined according to whether the car (20) is or is not in the elevator landing door (21) unlocking zone and the open or closed state of the car (20) door (24).

3. (Previously Presented) Safety system according to claim 1, characterised in that it further comprises means of determining the position of an elevator car (20) in the elevator shaft (1), these means being connected to a synthesis unit (4), the operating state of the elevator also being determined according to the position, provided by the means of determining the position of the car.
4. (Original) Safety system according to claim 3 characterised in that the means of determining the position of the car (20) in the elevator shaft (1) comprises a GPS receiver installed on the car or a device that measures the distance between a fixed point and the car.
5. (Previously Presented) Safety system according to claim 3 characterised in that the means of determining the position of the car (20) in the elevator shaft (1) comprises means of deducing this information from data provided by the elevator control unit (5), and from configuration and operating parameters of the elevator.
6. (Currently Amended) Safety system according to claim 1, characterised in that it comprises means of ~~determined~~ determining (41) that the operating state of the elevator is critical if an elevator car (20) has stopped at a landing in line with an elevator landing door, and if another elevator landing door has been detected as being unlocked, or if the car has been detected between two landings and at least one elevator landing door has been detected as being unlocked.
7. (Previously Presented) Safety system according to claim 1, characterised in that the alarm signal devices comprise means of sound and/or light signalling installed in the elevator shaft (1).

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8. (Previously Presented) Safety system according to claim 1, characterised in that the alarm signal devices comprise means of alarm signalling (16) installed in the caretaker's premises.
9. (Previously Presented) Safety system according to claim 1, characterised in that the synthesis unit (4) is linked to means of transmitting the operating state of the elevator to a remote maintenance system.
10. (Original) Safety system according to claim 9 characterised in that the means of transmitting comprise a telephone transmitter.
11. (Previously Presented) Safety system according to claim 9, characterised in that the means of transmitting comprise a PSTN type telephone transmitter backed up by a GSM type transmitter.
12. (Previously Presented) Safety system according to claim 1, characterised in that the plurality of predetermined operating states comprises at least two of the following: a critical state, a broken-down state, an abnormal state, and a normal state.